

## PUBLIC HEALTH REPORTS.

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### THE TREATMENT OF HOOKWORM DISEASE.

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The fundamental principle underlying the treatment of hookworm disease is the same as that which underlies the treatment of all other zooparasitic diseases, namely, first treat the parasite, not the patient. After the parasite is treated, attention may be directed to treating the patient.

Although hookworm disease may occur in persons in any walk of life, it is particularly among the poorer classes that it is found, and the average hookworm patient (children excepted, to a certain extent) can not afford to lose several days' wages to undergo treatment. It is therefore frequently expedient to conduct the treatment Saturday evening and Sunday morning. It will often be found difficult to arouse the interest of a community in regard to the presence of hookworm disease and the need of treatment. This can frequently be done however, if it is borne in mind that the resulting anemia is, in common with other anemias, a frequent cause of amenorrhea.

*Warning.*—Notwithstanding that primarily we are to treat the parasite, not the patient, it should be remembered that if too great a quantity of thymol is absorbed by the patient, alarming symptoms and even death may occur. Accordingly, the patient and the patient's family should be carefully warned not to permit the patient under any circumstances to have on the Sunday during which the treatment is given any food or drink containing alcohol, fats, or oil. Patent medicines should be mentioned in particular, because of the alcohol many of them contain, and even milk and butter should be forbidden. I know of one case of serious thymol poisoning which followed promptly after the patient took a copious drink of milk the day thymol was taken.

*Preliminary treatment.*—On Saturday evening give a dose of Epsom salts. The reason is this: The hookworms are surrounded by more or less mucus and partially digested food. Unless this is removed, the thymol may not reach the parasites, but may reach the patient, and this is contrary to what is desired, as the thymol is intended for the parasite, not the patient.

*Thymol treatment on Sunday.*—(1) Position of patient: Instruct the patient to lie on his right side immediately before taking the drug and to remain in that position for at least half an hour after. The reason for this is that many of these patients have enlarged stomachs, and if they lie on their right side, the drug has the benefit of gravity in passing

rapidly from the stomach to the intestine; but if any other position is assumed, the drug may remain in the dilated cardiac portion of the stomach for some hours and result in considerable complaint on the part of the patient and delay of the drug in reaching the worms.

(2) Time of dosage: The time of giving and size of dose should be arranged on one of two plans, depending on existing conditions.

(a) The plan usually followed is: At 6 a. m., one-half of the total dose of thymol; at 8 a. m., one-half of the total dose of thymol; at 10 a. m., Epsom salts (never castor oil).

(b) If the case is an especially severe one, or if the patient has, upon the first Sunday's treatment, complained of burning or other effects of thymol, the following plan is adopted: At 6 a. m., one-third of the total dose of thymol; at 7 a. m., one-third of the total dose of thymol; at 8 a. m., one-third of the total dose of thymol (if unpleasant symptoms, as a sensation of severe burning in the stomach, have appeared this third dose should be omitted); at 10 a. m., Epsom salts (never castor oil).

(3) Food: No food is allowed until after the 10 o'clock dose of Epsom salts, but the patient is permitted to take a glass or so of water after the thymol, if he desires.

(4) Thymol: Finely powdered thymol in capsules, preferably in 5-grain capsules, should be used.

(5) General rule as to age: In the table of dosage given in the next paragraph, the maximum dose per day to be adopted as a routine is given for various age groups. In determining the dose, however, the rule should be followed of taking the apparent rather than the real age and of not hesitating to cut down the dose even lower in case of unusually severe cardiac symptoms or other unfavorable conditions. Thus for a boy 16 years old, who appears to be only 12 years old, or in whom the anemia is especially marked, resulting in severe cardiac symptoms, the quantity of thymol should be reduced to the 12 or even the 8 year dose. Some authors give the impression that it is useless to give thymol for this disease unless the full dose is administered. This view is not in harmony with my experience.

(6) Size of dose: The following doses represent the maximum amount to be used during one day's treatment for the age groups in question. It is practically the same table that the Porto Rican Commission has been using:

	Grains.
Under 5 years old.....	7½
From 5 to 9 years old.....	15
From 10 to 14 years old.....	30
From 15 to 19 years old.....	45
From 20 to 59 years old.....	60
Above 60 years old.....	30 to 45

Total dose, to be divided as indicated in paragraph (2).

*Repetition of treatment.*—The foregoing treatment is repeated once a week, preliminary treatment Saturday evening and thymol on Sunday morning, until the patient is discharged.

*Duration of treatment.*—To recognize whether the parasites are all expelled, and therefore to determine when to end the thymol treatment, either of two plans may be adopted, namely:

(a) Microscopic examination: On Saturday morning make 10 microscopic preparations of a fresh stool. If eggs are still present,

repeat the treatment; if eggs are not found, discontinue the thymol. It takes about forty to sixty minutes to make this examination of 10 slides thoroughly.

(b) Cheese-cloth method: A much easier way of recognizing the completion of the treatment, and for practical results nearly as satisfactory as the microscopic examination, is the following: Instruct the patient to wash all of his stools Sunday, Monday, and Tuesday, through a cheese cloth and to keep the cheese cloth moist and bring it to the office on Tuesday. While the fecal material will wash through, the worms will be retained in the cloth. Continue treatment as long as worms are found in the cheese cloth.

*Other treatment.*—If desired, iron may be administered on the days on which the thymol is not taken. It is a good plan, however, not to give iron during the first week, for it is quite important to convince the patient that the thymol treatment is the one which is really accomplishing the lasting good. If the drug is taken Sunday, the patient is likely to begin to feel some benefit by Wednesday or Thursday; his family is likely to notice it on Thursday or Friday. If iron is given during the first week, the conclusion may possibly be drawn by the patient that it is really the iron which is causing the improvement, and he may discontinue the thymol. Of the two, the thymol is, of course, the far more important, for it reaches the parasite, while the iron reaches only the patient.

### UNITED STATES.

[Reports to the Surgeon-General, Public Health and Marine-Hospital Service.]

*Reports from San Francisco, Cal.—Plague-prevention work at San Francisco, Oakland, and Point Richmond, and in Alameda County, Cal.*

Surgeon Blue reports:

#### SAN FRANCISCO, CAL.

Date of last case of human plague: Sickened, January 30, 1908.

Date of last case of rodent plague: October 23, 1908.

*Week ended July 31, 1909.*

Dead inspected.....	98
Plague.....	0
Premises inspected.....	1,999
Houses disinfected.....	3
Houses destroyed.....	3
Buildings condemned.....	7
Nuisances abated.....	217
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Rats found dead.....	33
Rats trapped.....	2,217
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Total rats taken.....	2,250
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Rats identified:	
<i>Mus norvegicus</i> .....	1,639
<i>Mus rattus</i> .....	43
<i>Mus musculus</i> .....	532
<i>Mus alexandrinus</i> .....	11
<hr/>	
Total.....	2,225
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## Rats identified as to sex:

Male.....	807
Female.....	834
Total.....	1,641
Rats examined bacteriologically.....	1,230
Plague rats.....	0
Poisons placed.....	38,850

## ALAMEDA COUNTY, CAL. (EXCLUSIVE OF OAKLAND).

Last case of human plague, sickened, 10 miles east of Sunol, July 27, 1909.

Last case of rodent plague, found 1 mile west of Altamont, July 30, 1909.

## Week ended July 31.

Sick inspected.....	1
Plague <sup>a</sup> .....	1
Dead inspected.....	54
Plague.....	0
Necropsy held.....	1
Ground squirrel infected with <i>B. pestis</i> *.....	1

## OAKLAND, CAL.

Date of last case of human plague: Sickened, July 17, 1908.

Date of last case of rodent plague: Trapped, December 1, 1908.

## Week ended July 31, 1909.

Dead inspected.....	26
Plague.....	0
Necropsies held.....	1
Premises inspected.....	523
Premises reinspected.....	208
Premises cleaned.....	72
Garbage cans installed.....	21
Places made rat proof.....	1
Nuisances abated.....	93
Rats found dead.....	50
Rats trapped.....	727
Rats identified:	
<i>Mus norvegicus</i> .....	768
<i>Mus rattus</i> .....	2
<i>Mus musculus</i> .....	40
<i>Mus alexandrinus</i> .....	7
Total.....	817
Ground squirrels caught.....	271
Ground squirrels examined bacteriologically.....	271
Plague squirrels.....	0
Rats examined bacteriologically.....	777
Plague rats.....	0

<sup>a</sup> Joseph Mendoza: Male; aged 13 years; nativity, California (Portuguese parentage). Sickened with plague July 27, 1909, 10 miles east of Sunol. Removed to Alameda County Infirmary August 1, 1909. Under treatment. Left axillary bubo. Originally reported August 1, 1909. Verified bacteriologically August 4, 1909.

\* This squirrel was obtained on road 1 mile west of Altamont.

## POINT RICHMOND, CAL.

*Week ended July 31.*

Sick inspected.....	2
Plague.....	0
Dead inspected.....	4
Plague.....	0

*Report from Seattle, Wash.—Plague-prevention work.*

Passed Assistant Surgeon Glover reports, August 2:

## SEATTLE, WASH.

Date of finding of last plague rat, September 26, 1908.

*Week ended July 31, 1909.*

Rats received.....	1,078
Rats necropsied.....	1,048
Plague rats found.....	0
Plague-infected rats to date.....	21

## STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES AND CITIES OF THE UNITED STATES—UNTABULATED.

CONNECTICUT—*New Haven*.—Report for the year 1908. Estimated population, 130,000. Total number of deaths, 2,120, corresponding to a death rate of 16.3 per 1,000 of population, including scarlet fever 2, enteric fever 43, measles 6, whooping cough 15, diphtheria 32, and 209 from tuberculosis. Cases: Diphtheria 179, scarlet fever 158, and enteric fever 205.

FLORIDA.—*Pensacola*.—Month of July, 1909. Estimated population, 30,000. Total number of deaths, 26, corresponding to an annual death rate of 10.3 per 1,000 of population, including enteric fever, 3, and 3 from tuberculosis.

ILLINOIS.—*Alton*.—Month of July, 1909. Estimated population, 22,000. Total number of deaths, 18, including whooping cough 1, and 1 from tuberculosis. Cases: Scarlet fever 1, and whooping cough 9.

*Peoria*.—Month of July, 1909. Estimated population, 85,000. Total number of deaths, 56, corresponding to an annual death rate of 7.8 per 1,000 of population, including 3 from tuberculosis. Cases: Smallpox 11, scarlet fever 3, and diphtheria 5.

*Quincy*.—Month of July, 1909. Estimated population, 43,000. Total number of deaths, 39, including enteric fever 1, and 3 from tuberculosis. Cases: Not reported.

INDIANA.—Month of June, 1909. Total number of deaths, 2,507, corresponding to an annual death rate of 11.1 per 1,000 of the population, which is estimated at 2,732,549. Deaths from contagious diseases were: Tuberculosis 389, enteric fever 34, diphtheria 1, scarlet fever 6, measles 12, and 21 from whooping cough. Cases: Small-



pox, 103 in 41 counties; enteric fever, 125 in 27 counties; diphtheria, 54 in 17 counties.

**KENTUCKY**—*Henderson*.—Month of July, 1909. Estimated population, 17,900. Total number of deaths, 17, including enteric fever 1, and 4 from tuberculosis. Cases: Enteric fever 6, scarlet fever 1, and 1 from tuberculosis.

**MASSACHUSETTS**.—Reports from the state board of health for the four weeks ended June 26, 1909. Fifty-three cities and towns reporting, having an aggregate estimated population of 2,379,468, report 2,665 deaths, including diphtheria 38, enteric fever 16, measles 14, and 229 from phthisis pulmonalis. Cases: Diphtheria 480, enteric fever 139, measles 2,051, scarlet fever 542, whooping cough 84, and phthisis pulmonalis 550.

*Newton*.—Month of July, 1909. Estimated population, 38,919. Total number of deaths, 29, corresponding to an annual death rate of 8.94 per 1,000 of population, including diphtheria 2, and 5 from pulmonary tuberculosis. Cases: Diphtheria 7, scarlet fever 4, enteric fever 4, measles 9, and pulmonary tuberculosis 5.

**MICHIGAN**.—Month of June, 1909. Estimated population, 2,530,016. Total number of deaths, 2,608, corresponding to an annual death rate of 11.9 per 1,000 of population, including tuberculosis 222, enteric fever 32, diphtheria 16, scarlet fever 19, measles 25, whooping cough 15, and 145 from cancer.

**MISSOURI**—*St. Louis*.—Month of June, 1909. Estimated population, 735,000 (white, 688,000; colored, 47,000). Total number of deaths, 800 (white, 706; colored, 94), corresponding to an annual death rate of 17.37 per 1,000 of population, including diphtheria 4, measles 12, enteric fever 5, whooping cough 3, scarlet fever 11, and 76 from pulmonary tuberculosis. Cases of contagious diseases reported: Diphtheria 74, enteric fever 30, measles 727, scarlet fever 62, whooping cough 38, smallpox 2, and pulmonary tuberculosis 165.

**NEW HAMPSHIRE**—*Concord*.—Month of June, 1909. Estimated population, 20,000. Total number of deaths, 32, corresponding to an annual death rate of 12 per 1,000 of population, including diphtheria 1, and 3 from tuberculosis. Cases: Enteric fever 1, scarlet fever 6, diphtheria 7, and measles 134.

Month of July, 1909. Total number of deaths, 42, corresponding to an annual death rate of 13.8 per 1,000 of population, including diphtheria 1, and 4 from pulmonary tuberculosis. Cases: Scarlet fever 2, diphtheria 6, enteric fever 2, and measles 15.

**NEW YORK**—*Saratoga Springs*.—Month of July, 1909. Estimated population, 11,822. Total number of deaths 19, including 2 from tuberculosis. Cases: Diphtheria 1, and tuberculosis 3.

**TENNESSEE**—*Nashville*.—Month of July, 1909. Total number of deaths 185, corresponding to an annual death rate of 17.37 per 1,000 of population, including enteric fever 12, whooping cough 4, and 25

from tuberculosis. Cases: Scarlet fever 11, diphtheria 1, enteric fever 115, and pulmonary tuberculosis 12.

**VIRGINIA—Richmond.**—Month of July, 1909. Estimated population, 115,701 (white, 73,204; colored, 42,497). Total number of deaths 229 (white, 115; colored, 114), including whooping cough 4, enteric fever 9, and 23 from pulmonary tuberculosis. Cases: Diphtheria 3, enteric fever 91, scarlet fever 1, measles 14, and whooping cough 27.

**WISCONSIN—Milwaukee.**—Month of June, 1909. Estimated population, 370,000. Total number of deaths 398, corresponding to an annual death rate of 13.08 per 1,000 of population, including enteric fever 4, scarlet fever 22, diphtheria 8, measles 5, and 38 from tuberculosis. Cases: Smallpox 11, tuberculosis 78, diphtheria 48, scarlet fever 144, enteric fever 43, and measles 353.

*Smallpox in the United States as reported to the Surgeon-General, Public Health and Marine-Hospital Service, June 26 to August 20, 1909.*

[For reports received from December 25, 1908, to June 25, 1909, see PUBLIC HEALTH REPORTS for June 25, 1909.]

[NOTE.—In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
<b>California:</b>				
Hobart Mills.....	Apr. 1-30.....	1		
Sacramento.....	June 6-12.....	1		
San Francisco.....	June 6-12.....	1		
Truckee.....	Mar. 23.....	3		
Total for State.....		6		
<b>Connecticut:</b>				
New Haven.....	May 1-31.....	1		
Total for State.....		1		
<b>Georgia:</b>				
Macon.....	June 14-July 11...	8		
Total for State.....		8		
<b>Illinois:</b>				
<b>Alexander County—</b>				
Cairo.....	May 1-June 30....	25		
Champaign County.....	Apr. 1-May 31....	25		
Christian County.....	Apr. 1-May 31....	35		
Clay County.....	Apr. 1-30.....	1		
Clinton County.....	Apr. 1-June 30....	7		
<b>Cook County—</b>				
Chicago.....	June 20-July 3....	4		
Dewitt County.....	May 1-31.....	7		
Edwards County.....	Apr. 1-May 31....	3		
Efingham County.....	Apr. 1-30.....	2		
Fayette County.....	May 1-31.....	2		
Franklin County.....	Apr. 1-May 31....	2		
Fulton County.....	Apr. 1-June 30....			Present.
Gallatin County.....	Apr. 1-May 31....	16		
Iroquois County.....	May 1-31.....	1		
Jackson County.....	Apr. 1-May 31....	14		
Murphysboro.....	Apr. 1-May 31....	40		
Knox County.....	Apr. 1-30.....	8		
Lake County.....	Apr. 1-May 31....	3		
LaSalle County.....	Apr. 1-30.....	3		
McDonough County.....	Apr. 1-30.....	25		
<b>McHenry County—</b>				
Marengo.....	May 1-June 30....	97		
Macoupin County.....	Apr. 1-May 31....	6		
McLean County.....	June 1-30.....	1		
Madison County.....	May 1-June 30....	2		

## Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Illinois—Continued.</b>				
Marion County.....	Apr. 1-June 30....	14		
Massac County—				
Metropolis.....	Apr. 1-May 31.....	29		
Montgomery County.....	May 1-June 30.....	2		
Peoria County.....	Apr. 1-June 30.....	13		
Peoria.....	June 1-July 31.....	37		
Perry County.....	Apr. 1-May 31.....	11		
Pulaski County.....	May 1-31.....	5		
Rock Island County—				
Moline.....	June 1-July 31....	2		
St. Clair County—				
East St. Louis.....	May 1-June 30....	11		
Saline County.....	May 1-31.....	30		
Sangamon County.....	Apr. 1-30.....	1		
Springfield.....	May 29-July 9.....	3		
Schuyler County.....	May 1-31.....	1		
Shelby County.....	Apr. 1-May 31.....	2		
Stephenson County.....	May 1-31.....	4		
Tazewell County.....	May 1-31.....	5		
Pekin.....	Apr. 1-June 30.....	66		
Union County.....	Apr. 1-May 31.....	5		
Vermilion County.....	Apr. 1-May 31.....	2		
Danville.....	June 14-Aug. 1.....	11		
Warren County.....	June 1-30.....	1		
Williamson County.....	Apr. 1-May 31.....	6		
Winnebago County.....	June 1-30.....	1		
Woodford County.....	Apr. 1-May 31.....	21		
<b>Total for State</b> .....		<b>612</b>		
<b>Indiana:</b>				
Allen County.....	May 1-31.....	5		
Fort Wayne.....	June 6-July 31.....	66		
Carroll County.....	June 1-30.....	1		
Clay County.....	June 1-30.....	4		
Dearborn County.....	May 1-31.....	4		
Dekalb County.....	June 1-30.....	1		
Delaware County.....	May 1-31.....	1		
Muncie.....	June 20-July 10....	4		
Fayette County.....	June 1-30.....	1		
Gibson County.....	May 1-31.....	5		
Grant County.....	May 1-June 30.....	3		
Greene County.....	June 1-30.....	2		
Marion County—				
Indianapolis.....	June 14-20.....	1		
Montgomery County.....	May 1-June 30.....	9		
Parke County.....	May 1-31.....	1		
Pulaski County.....	May 1-31.....	2		
St. Joseph County.....	June 1-30.....	4		
South Bend.....	June 13-26.....	4		
Vanderburgh County.....	May 1-June 30.....	26		
Vermilion County.....	May 1-June 30.....	41		
Vigo County.....	June 1-30.....	4		
Wayne County.....	May 1-June 30.....	10	1	
White County.....	May 1-31.....	2		
<b>Total for State</b> .....		<b>201</b>	<b>1</b>	
<b>Iowa:</b>				
Keokuk.....	May 1-31.....	3		
Ottumwa.....	June 1-30.....	1		
<b>Total for State</b> .....		<b>4</b>		
<b>Kansas:</b>				
Kansas City.....	June 13-July 17....	10		
Wichita.....	July 11-31.....	3		
<b>Total for State</b> .....		<b>13</b>		
<b>Kentucky:</b>				
Covington.....	June 13-July 3.....	5		
Lexington.....	June 20-July 31....	14		
Newport.....	June 14-July 25....	4		
Paducah.....	June 13-26.....	3		
<b>Total for State</b> .....		<b>26</b>		
<b>Louisiana:</b>				
New Orleans.....	June 13-Aug. 7....	11		
<b>Total for State</b> .....		<b>11</b>		



## Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Maryland, general.....	Mar. 1-Apr. 30....	9		
Total for State.....		9		
Massachusetts:				
Lawrence.....	June 27-July 3....	1		
Total for State.....		1		
Michigan:				
Bay County—				
Bay City.....	June 1-30.....	1		
Calhoun County.....	June 1-30.....	1		
Chippewa County.....	May 1-31.....	1		
Delta County.....	June 1-30.....	1		
Eaton County.....	May 1-June 30.....	21		
Emmet County.....	June 1-30.....	1		
Houghton County.....	May 1-31.....	1		
Huron County.....	June 1-30.....	1		
Ingham County.....	May 1-31.....	1		
Jackson County.....	May 1-31.....	1		
Kalamazoo County—				
Kalamazoo.....	July 4-24.....	2		
Kent County—				
Grand Rapids.....	June 6-26.....	2		
Lapeer County.....	June 1-30.....	1		
Marquette County.....	May 1-June 30.....	6		
Muskegon County.....	May 1-June 30.....	6		
Newaygo County.....	June 1-30.....	1		
Oceana County.....	May 1-31.....	1		
Ottawa County.....	May 1-June 30.....	7		
Saginaw County.....	May 1-June 30.....	17		
Saginaw.....	July 25-31.....	1		
St. Clair County.....	May 1-June 30.....	4		
Schoolcraft County—				
Manistique.....	June 1-30.....	27		
Tuscola County.....	May 1-31.....	4		
Wayne County—				
Detroit.....	May 1-31.....	1		
Total for State.....		110		
Minnesota, general.....	Mar. 1-Apr. 30.....		3	
Becker County.....	June 15-21.....	5		
Bigstone County.....	June 8-14.....	1		
Carver County.....	July 6-12.....	1		
Faribault County.....	June 7-14.....	2		
Hennepin County—				
Minneapolis.....	May 1-June 30.....	39		
Hubbard County.....	May 25-31.....	1		
Itasca County.....	May 25-June 14.....	7		
Lesueur County.....	June 1-7.....	1		
McLeod County.....	May 25-31.....	1		
Marshall County.....	June 8-July 5.....	6		
Meeker County.....	May 25-31.....	5		
Morrison County.....	June 21-28.....	1		
Nobles County.....	May 25-June 21.....	2		
Olmsted County.....	June 8-14.....	2		
Pine County.....	May 25-31.....	1		
Ramsey County—				
St. Paul.....	Apr. 1-May 31.....	10		
Redwood County.....	June 1-7.....	1		
Rock County.....	June 1-7.....	1		
St. Louis County.....	May 25-June 21.....	3		
Duluth.....	June 10-July 30.....	18		
Sibley County.....	June 22-28.....	3		
Steele County.....	May 25-June 21.....	3		
Wabasha County.....	May 25-31.....	2		
Wadena County.....	May 25-June 21.....	10		
Waseca County.....	May 25-31.....	8		
Wright County.....	June 15-21.....	1		
Total for State.....		135	3	
Missouri:				
Kansas City.....	June 13-26.....	2		
St. Joseph.....	May 30-July 24.....	19		
St. Louis.....	June 20-July 24.....	4		
Total for State.....		25		

## Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Montana:</b>				
Carbon County.....	June 1-30.....	4	.....	
Cascade County—				
Great Falls.....	June 1-30.....	1	.....	
Chouteau County.....	June 1-30.....	1	.....	
Custer County.....	June 1-30.....	1	.....	
Dawson County.....	May 1-31.....	5	.....	
Deerlodge County.....	May 1-31.....	1	.....	
Fergus County.....	June 1-30.....	1	.....	
Flathead County.....	May 1-31.....	4	.....	
Gallatin County.....	May 1-31.....	4	.....	
Jefferson County.....	May 1-31.....	2	.....	
Lewis and Clark County—				
Helena.....	May 1-31.....	1	.....	
Missoula County—				
Missoula.....	June 1-30.....	1	.....	
Park County.....	May 1-June 30.....	21	.....	
Livingston.....	May 1-June 30.....	10	.....	
Sanders County.....	May 1-31.....	1	.....	
Silverbow County.....	June 1-30.....	5	.....	
Butte.....	June 11-Aug. 5.....	21	.....	
Teton County.....	May 1-31.....	1	.....	
Valley County.....	May 1-31.....	1	.....	
Yellowstone County.....	May 1-31.....	1	.....	
Total for State.....		87	.....	
<b>Nebraska:</b>				
Lincoln.....	May 1-June 30.....	33	.....	
Total for State.....		33	.....	
<b>New York, general.....</b>				
	May 1-31.....	408	.....	
Total for State.....		408	.....	
<b>North Carolina:</b>				
Beaufort County.....	June 1-30.....	1	.....	
Bladen County.....	Apr. 1-30.....	5	.....	
Buncombe County.....	Apr. 1-30.....	1	.....	
Caldwell County.....	Apr. 1-June 30.....	19	.....	
Camden County.....	Apr. 1-June 30.....	70	.....	
Carteret County.....	Apr. 1-30.....	1	.....	
Craven County.....	Apr. 1-June 30.....	8	.....	
Cumberland County.....	May 1-31.....	1	.....	
Duplin County.....	Apr. 1-June 30.....	25	.....	
Johnston County.....	Apr. 1-30.....	2	.....	
Harnett County.....	June 1-30.....	3	.....	
Lee County.....	Apr. 1-30.....	6	.....	
Madison County.....	May 1-June 30.....	7	.....	
Mecklenburg County.....	May 1-31.....	2	.....	
Mitchell County.....	Apr. 1-30.....	.....	.....	Present.
Nash County.....	June 1-30.....	1	.....	
Onslow County.....	Apr. 1-30.....	2	.....	
Pamlico County.....	May 1-31.....	4	.....	
Pasquotank County.....	Apr. 1-May 31.....	15	.....	
Pitt County.....	Apr. 1-June 30.....	17	.....	
Robeson County.....	June 1-30.....	8	.....	
Rowan County.....	May 1-June 30.....	16	.....	
Sampson County.....	Apr. 1-June 30.....	51	.....	
Transylvania County.....	May 1-31.....	5	.....	In extreme northern part.
Wake County.....	Apr. 1-30.....	2	.....	
Watauga County.....	June 1-30.....	12	.....	
Wayne County.....	May 1-31.....	14	.....	
Wilson County.....	Apr. 1-30.....	1	.....	
Yancey County.....	Apr. 1-May 31.....	8	.....	
Total for State.....		307	.....	
<b>North Dakota:</b>				
Bottineau County.....	May 1-31.....	1	.....	
Grand Forks County.....	May 1-31.....	6	.....	
Lamoure County.....	May 1-31.....	1	.....	
McHenry County.....	May 1-31.....	1	.....	
Ward County.....	May 1-31.....	8	.....	
Total for State.....		17	.....	
<b>Ohio:</b>				
Cincinnati.....	June 12-July 2.....	4	.....	
Dayton.....	July 18-24.....	1	.....	
Total for State.....		5	.....	

## Smallpox in the United States—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Oklahoma:				
Oklahoma.....	Apr. 3-Aug. 7.....	50	.....	
Total for State.....		50	.....	
Oregon:				
Portland.....	Apr. 1-June 30....	26	.....	
Total for State.....		26	.....	
Pennsylvania:				
Philadelphia.....	July 10-24.....	4	.....	
Total for State.....		4	.....	
Tennessee:				
Knoxville.....	June 20-July 17...	6	.....	
Total for State.....		6	.....	
Texas:				
Archer County.....	June 1-30.....	1	.....	
Bee County.....	June 1-30.....	6	.....	
Bexar County—				
San Antonio.....	June 13-July 17...	10	.....	
Cameron County.....	June 1-30.....	1	.....	
Cherokee County.....	June 1-30.....	1	.....	
Ellis County.....	June 1-30.....	1	.....	
Galveston County.....	June 1-30.....	1	.....	
Galveston.....	June 19-25.....	1	.....	
Gonzales County.....	June 1-30.....	5	1	
Grayson County.....	June 1-30.....	9	.....	
Harris County.....	June 1-30.....	12	.....	
Harrison County.....	June 1-30.....	15	.....	
Jefferson County.....	June 1-30.....	2	.....	
Laredo County.....	June 19.....	1	.....	
Matagorda County.....	June 1-30.....	3	.....	
McLennan County.....	June 1-30.....	19	.....	
Milam County.....	June 1-30.....	5	.....	
Runnels County.....	June 1-30.....	6	.....	
San Saba County.....	Apr. 9-June 30....	11	.....	
Smith County.....	June 1-30.....	10	.....	
Stephens County.....	June 1-30.....	33	1	
Tarrant County.....	June 1-30.....	17	2	
Fort Worth.....	June 1-July 31....	5	.....	
Travis County.....	June 1-30.....	17	.....	
Upshur County.....	June 1-30.....	1	.....	
Van Zant County.....	June 1-30.....	2	.....	
Wharton County.....	June 1-30.....	2	.....	
Wichita County.....	June 1-30.....	5	.....	
Williamson County.....	June 1-30.....	4	1	
Total for State.....		206	5	
Utah:				
Box Elder County.....	May 1-31.....	3	.....	
Cache County.....	June 1-30.....	1	.....	
Carbon County.....	June 1-30.....	1	.....	
Davis County.....	May 1-June 30....	23	.....	
Emery County.....	June 1-30.....	1	.....	
Garfield County.....	May 1-31.....	1	.....	
Salt Lake County.....	May 1-June 30....	25	.....	
Salt Lake City.....	June 1-30.....	56	.....	
San Pete County.....	May 1-June 30....	24	.....	
Summit County.....	May 1-June 30....	39	.....	
Tooele County.....	May 1-31.....	5	.....	
Uinta County.....	May 1-31.....	1	.....	
Utah County.....	May 1-31.....	6	.....	
Weber County.....	May 1-31.....	3	.....	
Total for State.....		189	.....	
Virginia:				
Lynchburg.....	June 20-26.....	1	.....	
Total for State.....		1	.....	
Washington:				
Spokane.....	June 6-July 3.....	7	.....	
Tacoma.....	May 14-June 27....	6	.....	
Total for State.....		13	.....	

*Smallpox in the United States—Continued.*

Place.	Date.	Cases.	Deaths.	Remarks.
<b>Wisconsin:</b>				
Ashland County.....	Jan. 1-Mar. 31....	8	.....	
Barron County.....	Jan. 1-Mar. 31....	47	.....	
Buffalo County.....	Jan. 1-Mar. 31....	5	.....	
Burnett County.....	Jan. 1-Mar. 31....	11	.....	
Calumet County.....	Jan. 1-Mar. 31....	1	.....	
Chippewa County.....	Jan. 1-Mar. 31....	87	1	
Clark County.....	Jan. 1-Mar. 31....	13	.....	
Columbia County.....	Jan. 1-Mar. 31....	1	.....	
Douglas County.....	Jan. 1-Mar. 31....	8	.....	
Dunn County.....	Jan. 1-Mar. 31....	35	2	
Fond du Lac County.....	Jan. 1-Mar. 31....	1	.....	
Jackson County.....	Jan. 1-Mar. 31....	1	.....	
Juneau County.....	Jan. 1-Mar. 31....	39	.....	
La Crosse County—				
La Crosse.....	June 13-July 10....	2	.....	
Manitowoc County.....	Jan. 1-Mar. 31....	33	.....	
Marathon County.....	Jan. 1-Mar. 31....	1	.....	
Milwaukee County—				
Milwaukee.....	June 21-27.....	2	.....	
Oconto County.....	Jan. 1-Mar. 31....	1	.....	
Outagamie County—				
Appleton.....	June 20-July 31....	22	.....	
Ozaukee County.....	Jan. 1-Mar. 31....	13	.....	
Pepin County.....	Jan. 1-Mar. 31....	2	.....	
Pierce County.....	Jan. 1-Mar. 31....	4	.....	
Polk County.....	Jan. 1-Mar. 31....	2	.....	
St. Croix County.....	Jan. 1-Mar. 31....	47	.....	
Sheboygan County.....	Jan. 1-Mar. 31....	40	.....	
Taylor County.....	Jan. 1-Mar. 31....	5	.....	
Trempealeau County.....	Jan. 1-Mar. 31....	3	.....	
Vernon County.....	Jan. 1-Mar. 31....	51	.....	
Washburn County.....	Jan. 1-Mar. 31....	8	.....	
Waukesha County.....	Jan. 1-Mar. 31....	5	.....	
Waupaca County.....	Jan. 1-Mar. 31....	24	.....	
Waushara County.....	Jan. 1-Mar. 31....	1	.....	
Winnebago County.....	Jan. 1-Mar. 31....	4	.....	
Total for State.....		527	3	
Grand total for the United States.....		3,041	12	

*Plague in the United States as reported to the Surgeon-General, Public Health and Marine-Hospital Service, August 2-20, 1909.*

Place.	Date.	Cases.	Deaths.	Remarks.
<b>California:</b>				
Alameda County—				
Sunol.....	Aug. 2.....	1	.....	Case sickened July 27.

## Weekly morbidity and mortality table, cities of the United States.

[For smallpox and plague, see special tables.]

Cities.	Week ended—	Population, United States census, 1900.	Total deaths from all causes.	Tuberculosis.		Enteric fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Allentown, Pa.	July 17	35,416	20	3	1	1		5	1	2	2	2			
Do.	July 24	35,416	16	5				2	1	1	3				
Do.	July 31	35,416	17			1		2	5		1				
Do.	Aug. 7	35,416	14	1	1	2		1	2		1				
Altoona, Pa.	do.	38,973	12	1	3	5									
Ashtabula, Ohio.	do.	12,949	5												
Baltimore, Md.	do.	508,957	215	24	27	40	2	12		7	1			43	3
Bath, Me.	do.	10,477										2			
Bayonne, N. J.	do.	32,722				2		1				2			
Beaver Falls, Pa.	do.	13,000								1					
Biddeford, Me.	do.	16,145	4												
Biloxi, Miss.	do.	5,467	1							1	1				
Binghamton, N. Y.	do.	38,647	10	4	2					3		1	1		
Boston, Mass.	do.	560,892	194	54	16	8	1	22		31	2	23		6	
Bradford, Pa.	do.	15,029	4							1					
Bridgeport, Conn.	do.	70,996	25	1	3	1		2		4	1				
Brockton, Mass.	do.	40,063	9	4	2	1									
Butte, Mont.	July 29	30,470	9					1							
Do.	Aug. 5	30,470	8												
Cambridge, Mass.	Aug. 7	91,886	21	8	2	1				1		2			
Camden, N. J.	do.	75,935	28	2		1				6					
Camden, S. C.	do.	2,441	4		1	1	1					2			
Carbondale, Pa.	do.	13,536	7												
Charlotte, N. C.	Aug. 6	18,091	7		1	5		1							
Chelsea, Mass.	Aug. 7	34,072	15	1						1					
Chicopee, Mass.	do.	19,167	11			1						1			
Cincinnati, Ohio.	Aug. 6	325,902	121	24	16	10		3		4				6	2
Clinton, Mass.	Aug. 7	13,667	3		1							1	1		
Columbus, Ga.	do.	17,614	9		1										
Columbus, Ohio.	do.	125,500	33	6	2	8		2		1				3	
Conecord, N. H.	July 31	19,632	10	1	1					2	1				
Do.	Aug. 7	19,632	8	2	2			1		1					
Covington, Ky.	do.	42,938	14		4	5								2	
Danville, Ill.	do.	16,534	8	1	1										
Dayton, Ohio.	do.	85,333	25					1				1			4
Detroit, Mich.	do.	285,704	136					4	1	6					
Duluth, Minn.	Aug. 6	80,000	21	3	1			9		5					1
Dunkirk, N. Y.	Aug. 7	11,616	2	1						5		1			
Elizabeth, N. J.	July 3	52,130	32		1	1		1						1	1
Do.	July 10	52,130	20		1			1		6					
Do.	July 17	52,130	24		1	1		1		1		1	1		
Do.	July 24	52,130	21							4				2	
Do.	July 31	52,130	32		2		1	3		1		1	2	1	
Elmira, N. Y.	Aug. 7	35,672	13	16				3							
El Paso, Tex.	Aug. 3	15,905	32	15	6	4				2					
Do.	Aug. 10	15,905	34	4	4	4	1			1	1	2			1
Elkhart, Ind.	Aug. 7	15,184	4	2	1	1									
Evansville, Ind.	do.	59,007	14	4		8									
Everett, Mass.	July 31	24,336								1					1
Do.	Aug. 7	24,336	2	4						1					
Fall River, Mass.	do.	104,863	44	8	3	2		1							
Findlay, Ohio.	do.	17,613	6		2		1	1							
Galesburg, Ill.	do.	18,607	5												
Galveston, Tex.	do.	37,789		1		3				4					
Glens Falls, N. Y.	July 10	13,543	1	1											
Do.	July 17	13,543	5	2								3			
Do.	July 24	13,543	2									2			
Do.	July 31	13,543	6	1						3	1	2			
Gloucester, Mass.	Aug. 7	26,121	10												
Greensboro, N. C.	do.	10,035	5	1	1	5		1							
Greenville, S. C.	July 31	11,860	3												
Do.	Aug. 7	11,860	4					1							
Harrison, N. J.	do.	10,596	4					1							
Hartford, Conn.	Aug. 1	79,850	30		1	2		2		2					
Do.	Aug. 8	79,850	21												
Hyde Park, Mass.	Aug. 7	13,244	3												
Indianapolis, Ind.	Aug. 8	169,164	71	1	5	14	1	3		5		4	1	11	3
Jacksonville, Fla.	July 3	28,429	8			1	1					1			
Do.	July 31	28,429	22	1	1	3	3			1					
Do.	Aug. 7	28,429	6	1	4	3	1			1					
Johnstown, Pa.	do.	35,936	15	2		8		5		1		8		3	

a Reported out of date.



## Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Population, United States census, 1900.	Total deaths from all causes.	Tuberculosis.		Enteric fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Kalamazoo, Mich.	Aug. 7	24,404	11	1	2	1	2	1	1			4		9	
Kansas City, Kans.	do.	51,418	25			5	2			1					
Kansas City, Mo.	do.	163,752	61	7	1	1	1	1	1	1	1				
Kearny, N. J.	do.	10,896	4	1				1		1					
Kingston, N. Y.	do.	24,535	6		1										
La Crosse, Wis.	do.	28,895	4					1		1					
La Fayette, Ind.	Aug. 9	18,116	9		1										
Lancaster, Pa.	Aug. 7	41,459	10	1		6		1				3			
Lexington, Ky.	do.	26,300	18		2									1	
Los Angeles, Cal.	July 31	102,479	79	10	16	6	1	5		3	1	13	1	4	
Lowell, Mass.	Aug. 7	94,969	37		2	1		1		2	1	6			
Macon, Ga.	do.	22,746	4							1					
Malden, Mass.	do.	33,664	8	1		2		3				1			
Manchester, N. H.	do.	56,987	32	5	5			3		3	1	17			
Marinette, Wis.	do.	16,195	2	2	1										
Marlboro, Mass.	July 31	13,609	4							3					
Massillon, Ohio.	Aug. 7	11,944	2		1			2							
Medford, Mass.	do.	18,244	3									6			
Melrose, Mass.	July 31	12,962	2												
Do.	Aug. 7	12,962	2	1		1						2			
Milwaukee, Wis.	do.	285,315	90	14	6	11	2	25	8	9	1	10	1	4	
Mobile, Ala.	July 31	38,469	20		3	1	2			1					
Montclair, N. J.	Aug. 7	13,962	4			5									
Montgomery, Ala.	Aug. 6	30,346	14		1										
Moline, Ill.	Aug. 7	17,248	7			1									
Morristown, N. J.	do.	13,000	4			1									
Mount Vernon, N. Y.	do.														
Do.	July 3	21,228	4					1		1					
Do.	July 17	21,228	11					1				2			
Do.	Aug. 7	21,228	6							2		1		1	
Nanticoke, Pa.	Aug. 8	12,616	9									2			
Nashville, Tenn.	Aug. 7	80,865	34	7	2	29	2	1							
Nebraska City, Nebr.	do.	7,200													
Newark, N. J.	do.	246,070	122	11	14	4		8	1	16	3		1	4	
New Bedford, Mass.	do.	63,442	49	5	2	1	1	2		1		1			
Newburyport, Mass.	do.	14,478	4	1	1	1									
New Orleans, La.	do.	278,104	85	32	11	23		10	1	6					
Newport, Ky.	do.	28,301	9		1										
Newton, Mass.	do.	33,587	6	1	1							1			
New York, N. Y.	do.	3,437,202	1,439	532	135	72	14	76	4	207	15	256	16	45	16
Niagara Falls, N. Y.	do.	19,457	4	1		1		1		1		1			
Norristown, Pa.	do.	22,265	10	1	1	1		1							
North Adams, Mass.	do.	21,200	7	1		2		1							
Northampton, Mass.	do.	18,643	3			1									
Oklahoma City, Okla.	do.	43,500	18			40	2								
Orange, N. J.	do.	24,141	9							1		1			
Palmer, Mass.	do.	7,801	5		1	1				1	1				
Peekskill, N. Y.	do.	10,358	5		1	1						1			
Philadelphia, Pa.	July 31	1,293,697	507	104	54	34	4	33	1	52	7	48	6	21	6
Pittsburg, Pa.	Aug. 7	321,616	127	34	3	17		6		3		1	3	12	
Pittsfield, Mass.	do.	21,766	8	1											
Plainfield, N. J.	do.	15,369	2	2		1		1							
Portland, Me.	July 17	50,145	18		2	3				1		3			
Do.	July 24	50,145	19		4					2		4			
Do.	July 31	50,145	21		1	3		5							
Portsmouth, N. H.	Aug. 7	10,637								1		1			
Portsmouth, Va.	Aug. 3	17,427	7		1	3	1								
Do.	Aug. 10	17,427	8			3		1		1					
Pottstown, Pa.	Aug. 7	13,696	10		1					1					
Providence, R. I.	do.	175,597	89	34	6	11	2	6		3	1	6	1		3
Racine, Wis.	July 17	29,102	11		3			2							
Do.	Aug. 7	29,102	4												
Reading, Pa.	Aug. 9	78,961	28	4	1	5		3		1	1	2			
Richmond, Va.	do.	85,050	39	4	7	21	3					3		2	
Rock Island, Ill.	Aug. 7	19,493	9			1									
Sacramento, Cal.	July 31	29,282	9			1				4					1
Do.	Aug. 7	29,282	11		1	1				1					
St. Louis, Mo.	do.	575,238	198	41	14	40	2	10	4	20	2	14		17	1
San Francisco, Cal.	July 31	342,782	109	36	6	3		5		4	1	1	1	8	1
San Jose, Cal.	do.	21,500	4												
Schenectady, N. Y.	Aug. 7	31,682	25	9	3	1	1			2					
Shamokin, Pa.	July 10	18,202	1									1			
Do.	July 17	18,202	2							1					
Do.	July 24	18,202	2			1									

a Reported out of date.

Weekly morbidity and mortality table, cities of the United States—Continued.

[illegible]

## FOREIGN AND INSULAR.

### ALGERIA.

#### *Deratization at Algiers and other localities—Rat fleas.*

The following information is taken from the Bulletin Bimensuelle, Algiers, July 15, 1909:

*Algiers.*—June 1-30. Rodents taken by the maritime sanitary service, 3,283; examined by the laboratory of health, 385; result, negative. Classification of rats: *Mus norvegicus*, 3,119; *Mus rattus*, 82; *Mus alexandrinus*, 13; *Mus musculus*, 69.

*Rat fleas found.*—*Pulex cheopis*, *Ctenopsylla musculi*, and *Ceratophyllus* have been found on *Mus norvegicus*.

*Arzew.*—June, 1909. Rodents taken, 157; examined, 40; result, negative.

*Beni Saf.*—June, 1909. Rodents taken, 109; examined, 36; result, negative.

*Dellys.*—June, 1909. Rodents taken in city, 43; on wharves, 34.

*Mers-el-Kebir.*—June, 1909. Rodents examined, 12; result, negative.

*Mostaganem.*—June, 1909. Rodents taken, 55; examined, 22; result, negative.

*Nemours.*—June, 1909. Rodents taken, 120; examined, 18; result, negative.

*Oran.*—June, 1909. Rodents taken, 191; examined, 170; result, negative.

*Tenes.*—June, 1909. Rodents taken, 27 on wharves and in warehouses.

### BRITISH GUIANA.

#### *Report from Georgetown—Fatal case of yellow fever in interior.*

Consul Clare reports, July 27:

A fatal case of yellow fever occurred July 22 at Suddie, on the Essequibo River, about 35 miles from the port of Georgetown. The only means of conveyance between Georgetown and Suddie is by steamer or boat, and owing to the tortuous route that has to be followed by the former the passage consumes about 5 hours.

The last case of yellow fever in this colony was in June, 1908, also in Suddie.

### BRITISH HONDURAS.

#### *Report from Belize, fruit port.*

Acting Assistant Surgeon Mengis reports:

Week ended August 5. Present officially estimated population, 10,000. General sanitary condition of this port and the surrounding country during the week, very good.

## Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
July 30	Ellis.....	New Orleans.....	41	3	19
Aug. 1	McLean.....	New York.....	7	0	0
2	Gardner W. Torr.....	Tampa, Fla.....	7	0	0

## CHINA.

*Report from Amoy—Inspection of vessel—Cholera, plague, and smallpox.*

Passed Assistant Surgeon Foster reports, July 12:

Week ended July 10. Bill of health issued, July 6, to the British steamship *Loongsang* with 54 in the crew, for Manila, via Hongkong. No cargo or passengers were embarked at this port. Vessel anchored in the stream while in port.

There were reported 79 deaths from plague, 1 death from smallpox, and 25 deaths from cholera in Amoy.

*Reports from Hongkong—Quarantine restrictions—Plague and smallpox—Examination of emigrants—Inspection of vessels.*

Passed Assistant Surgeon McKeon reports, July 6:

Restrictions enforced by Hongkong remain as reported April 3.

To the restrictions enforced against Hongkong, as reported April 3, the following have been added:

Place or port.	Nature of measure.
Singapore.....	Hongkong declared an infected port.
Shanghai.....	Do.

*Quarantinable diseases.*—Week ended June 26. Plague 5 cases, 5 deaths; smallpox 1 case. Week ended July 3. Plague 2 cases, 2 deaths.

*Aliens for Honolulu and Pacific coast ports.*—Week ended June 26. Examined, 0. Week ended July 3. Examined, 433; rejected, 137.

*Aliens for Philippine Islands.*—Week ended June 26. Examined, 4; rejected, 4. Week ended July 3. Examined, 11; rejected, 9.

*Inspection of vessels.*—Week ended June 26, 5; week ended July 3, 10.

*Report from Shanghai—Inspection of vessels—Smallpox.*

Acting Assistant Surgeon Ransom reports, July 7: Week ended July 3. Supplemental bills of health granted to 2 steamships, having a total personnel of 854. There were inspected 1 vessel, 46 members of crews, and 10 steerage passengers; 14 emigrants were examined, of whom 11 were passed and 3 recommended for rejection.

tion on account of trachoma; 18 pieces of baggage were disinfected, and 3 pieces inspected and passed. Manifests were viséed for 5,724 pieces of freight.

The weekly report of the municipal health department shows 2 deaths from smallpox among natives.

## CUBA.

*Report from Cienfuegos—Inspection of vessels—Sanitary conditions.*

Acting Assistant Surgeon Suarez reports, July 31:

*Week ended July 31.*

Vessels inspected.....	4
Bills of health issued.....	4
Members of crews inspected.....	122

The sanitary condition of the city and port has been satisfactory, no quarantinable disease having been reported.

*Reports from Habana—Inspection of vessels—Sanitary conditions—House and water-deposit inspection—Stegomyia.*

Passed Assistant Surgeon Amesse reports, August 9:

*Week ended August 7.*

Bills of health issued.....	19
Vessels inspected.....	17
Members of crews of outgoing vessels inspected.....	736
Passengers of outgoing vessels inspected.....	505

No quarantinable diseases were reported in Cuba during this period.

Sanitary conditions in the city continue good.

For the 10-day period ended July 31, the district inspectors for Habana report the location of 73 collections of mosquito larvæ, of which 34 were those of *Stegomyia calopus*. The sanitary brigades petrolled all possible breeding places in 22,241 houses, and covered 12,614 ditches, drains, wells, ponds, and swamp areas; 23,361 cans and similar receptacles were destroyed, 7,000 linear feet of ditching were cleaned, and 810 square meters of land were cleared of vegetation.

*Inspection of towns in Santa Clara Province.*

Acting Assistant Surgeon Noiret reports, August 7, through Passed Assistant Surgeon Amesse at Habana:

*Caibarien*.—Population, 11,000. There is a health officer.

No larvæ nor mosquitoes found. Water supply not very good. No hospital.

*Remedios*.—Population, 2,173. There is a health officer. Streets in very bad state, high grass growing in them. There is a hospital, which is very well kept, and which receives the sick from Caibarien, Benivisto, and surrounding country.

*Sagua la Grande*.—Population, 15,000. There is a health officer. Perfect street cleaning and sanitary work excellent. There are 2 hospitals, both well kept. No mosquitoes found. The water supply is



very good. The town has sewerage and drainage, and the general health is good.

*Santa Clara.*—Population, 32,500. There is a health officer. No water supply. The town is in fairly good condition. Mosquitoes are plentiful. Water for drinking and bathing has to be bought.

*Report from Matanzas—Inspection of vessels.*

Acting Assistant Surgeon Nuñez reports, August 9:

Week ended August 7. Bills of health granted to 5 vessels clearing for United States ports in good sanitary condition. They carried 122 members of crews, who were inspected and passed. No quarantinable disease was reported in the city or province.

*Report from Santiago—Inspection of vessels.*

Acting Assistant Surgeon Wilson reports, August 4:

Week ended July 30. Bills of health issued to 4 vessels bound for the United States. No vessel fumigated.

GUATEMALA.

*Report from Puerto Barrios, fruit port—Stegomyia present.*

Acting Assistant Surgeon Ames reports:

Week ended July 31. Present officially estimated population, 350. General sanitary condition of this port and the surrounding country during the week, good. *Stegomyia calopus* present.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
July 28	Ellis.....	New Orleans.....	36	16	2
31	Frutera.....	New York via Republic of Panama and Jamaica.	26	28	.....

Temperature taken of all persons on steamship *Ellis* day of sailing.

HAWAII.

*Report from Honolulu—Examination of rats for plague infection.*

Chief Quarantine Officer Hobdy reports, July 26:

HONOLULU.

*Week ended July 24.*

Total rats taken.....	668
Trapped.....	667
Found dead ( <i>Mus rattus</i> ).....	1
Examined bacteriologically.....	497
Plague rats.....	0
Classification of rats trapped:	
<i>Mus alexandrinus</i> .....	68
<i>Mus musculus</i> .....	257
<i>Mus norvegicus</i> .....	173
<i>Mus rattus</i> .....	169
Average number of traps set daily.....	1,294

## HONDURAS.

*Report from Ceiba, fruit port.*

Acting Assistant Surgeon Jumel reports:

Week ended August 4. Present officially estimated population, 6,800. General sanitary condition of this port and the surrounding country during the week, good.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected.
July 29	Harald.....	18	1	3	0
30	Joseph Vaccaro.....	32	6	1	0
Aug. 2	Viator.....	17	0	0	0
2	Bodo.....	17	0	0	0
3	Orleanian.....	31	6	0	0

Temperature of all persons on above-named vessels taken at time of clearance.

*Report from Puerto Cortez, fruit port.*

Acting Assistant Surgeon Wailes reports as follows:

Week ended August 4. Present officially estimated population, about 2,500. General sanitary condition of this port and the surrounding country, good.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.	Pieces of baggage disinfected.
Aug. 1	Mercator.....	17	0	0	0
3	Colombia.....	19	0	0	0
4	Bodo.....	17	1	0	0
4	Harry T. Inge.....	31	1	0	0

*Report from Tela, fruit port.*

Acting Assistant Surgeon Roe reports:

Week ended July 31. Present officially estimated population, about 1,500. General sanitary condition of this port and the surrounding country during the week, good.

Bills of health issued to the following-named vessels:

Date.	Vessel.	Destination.	Number of crew.	Number of passengers from this port.	Number of passengers in transit.
July 27	Harald.....	Mobile.....	18	3	0
31	Viator.....	New Orleans.....	16	0	0

## INDIA.

*Report from Calcutta—Transactions of Service—Cholera, plague, and smallpox—Summary of plague in Bengal and India.*

Acting Assistant Surgeon Allan reports, July 15:

Week ended July 10. Bill of health issued to the steamship *Katuna* bound for Philadelphia and New York with a total crew of 67. The usual precautions were taken, holds fumigated, rat guards placed on wharf lines, and Asiatics' effects disinfected.

Week ended July 3: At Calcutta, 56 deaths from cholera, 41 from plague, and 5 from smallpox; in Bengal, 69 cases of plague with 60 deaths; India, 553 cases of plague with 478 deaths.

## ITALY.

*Report from Naples—Inspection of vessels—Examination of emigrants—Smallpox—Case of smallpox among passengers for steamship Venezia.*

Surgeon Geddings reports, July 26:

*Vessels inspected at Naples. Week ended July 24.*

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
July 20	San Giorgio.....	New York via Palermo....			
20	Venezia.....	New York.....	143	50	290
22	Indiana.....	do.....	508	80	680
23	Berlin.....	do.....	1,153	180	1,450
	Total.....		1,804	310	2,420

*Rejections recommended.*

Date.	Name of ship.	Trachoma.	Favus.	Suspected trachoma.	Suspected favus.	Smallpox.	Other causes.	Total.
July 20	San Giorgio.....							
20	Venezia.....	5		2		1		9
22	Indiana.....	19		11			4	34
23	Berlin.....	16	2	5	1		27	51
	Total.....	40	2	18	1	1	32	94

*Smallpox in Naples.*—During the week ended July 25, 39 cases of smallpox with 5 deaths were reported at the health office of the city of Naples

A case of smallpox was discovered at the examination of the steerage passengers for the steamship *Venezia*, July 20. The patient was transferred to the Cotugno Hospital for Contagious Diseases. Forty contacts were returned to their boarding house and placed under observation. The contacts were vaccinated and their quarters were disinfected.

## JAPAN.

*Report from Yokohama—Inspection of vessels.*

Passed Assistant Surgeon Cumming reports, July 20:

Week ended July 17. Bills of health issued to 7 vessels.

Plague conditions here are improved. The weather for ten days has been unusually hot, and such climatic conditions have heretofore been followed by a cessation of plague.

*Examination of emigrants.*

Number of emigrants per steamship *Korea*, July 11, for Honolulu: Held for observation, 4.

Per steamship *Nippon Maru*, July 21, for Honolulu: Rejected, 1.

Per steamship *Tango Maru*, July 21, for Seattle: Held for observation, 6.

Rejections and detentions were for trachoma.

*Report from Kobe—Inspection of vessels—Examination of emigrants—Plague—Plague-infected rats.*

Acting Assistant Surgeon Knight reports, July 22:

Week ended July 17. Supplemental bills of health granted to 7 steamships.

There were inspected 110 members of crews and 379 steerage passengers, and 46 members of crews and 49 steerage passengers were bathed and disinfected and had their effects disinfected by steam. The number of pieces of baggage steamed was 238 and bedding 108. Manifests were viséed for 33,432 pieces of freight, amounting to 3,653 tons.

Emigrants examined: Per steamship *Tacoma Maru* for Tacoma, passed 4, recommended for rejection 5; per steamship *Tango Maru* for Seattle, passed 39, recommended for rejection 10. The emigrants passed, together with 6 intending passengers to Victoria per steamship *Tango Maru*, were inspected, bathed, and disinfected and their effects were disinfected before embarkation.

During the week 1 case of birds' wings and 3 personal effects were disinfected with formalin.

The official returns of infectious diseases for the week show 3 cases of plague with 2 deaths in Kobe. The 3 cases of plague reported were located at the lower end of Kobe near the railroad station, 2 cases occurring in the same house. Immediate measures were taken by the authorities to eradicate the infection from the location. Plague-infected rats are still reported, but none reported as infected along the water front or in the shipping districts.

*Report from Nagasaki—Examination of emigrants—Health conditions.*

Acting Sanitary Inspector Thompson reports, July 10:

Week ended July 10. Examined, passed, and certified seven Chinese aliens from Hongkong for San Francisco per steamship *Korea*. No quarantinable diseases occurred in this consular district during the week.

## MEXICO.

*Report from Coatzacoalcos—Inspection of vessels—Sanitary conditions.*

Acting Assistant Surgeon Thompson reports, August 5:

Week ended August 4. Four vessels inspected. No sickness on board. No quarantinable diseases reported.

*Report from Salina Cruz—Inspection and fumigation of vessels.*

Acting Assistant Surgeon Gochicoa reports, August 1:

Period from July 16 to July 31. Two vessels inspected and fumigated.

*Report from Tampico—Inspection of vessels—Sanitary conditions.*

Acting Assistant Surgeon Stowe reports, August 5:

*Week ended August 4, 1909.*

Vessels inspected and passed.....	5
Bills of health issued.....	5
Members of crews of outgoing vessels inspected.....	151
Passengers of outgoing vessels inspected.....	0
Vessels fumigated prior to sailing.....	0

No cases of quarantinable disease have occurred during the week. Sanitary condition of port, good.

*Report from Veracruz—Inspection and fumigation of vessels—Sanitary conditions—Work of sanitary commission, month of July, 1909.*

Acting Assistant Surgeon Carter reports, August 2:

*Week ended August 1, 1909.*

Bills of health issued.....	5
Vessels inspected.....	2
Vessels fumigated.....	3
Passengers inspected.....	247
Members of crews inspected.....	358

The health conditions of Veracruz and vicinity have been very good during the past week, no contagious diseases having been reported.

*Campaign against yellow fever in Veracruz during the month of July, 1909.*

Number of nonimmunes inspected.....	32,281
Visits to public schools.....	262
Visits to factories.....	158
Visits to warehouses.....	304
Nonimmunes entering the city.....	1,733
Nonimmunes leaving the city.....	1,872
Houses fumigated.....	73
Deposits of water inspected.....	7,572
Deposits of water oiled.....	2,124
Liters of oil used.....	1,919
Proprietors of property notified.....	8
Houses cleaned.....	2
Passengers inspected on trains.....	9,749
Suspects removed to hospital.....	5



## PHILIPPINE ISLANDS.

*Reports from Manila—Status of cholera in the provinces—Inspection of vessels—Quarantine transactions, month of April, 1909.*

Chief Quarantine Officer Heiser reports, June 29:

Week ended June 26. No quarantinable diseases occurred in the city of Manila.

Cholera was reported in the provinces as follows:

Provinces.	Cases.	Deaths.
Samar.....	14	14
Mountain.....	27	15
Oriental Negros.....	9	5
Pampanga.....	26	16
Total.....	76	50

Bills of health issued at the port of Manila: June 26, the British steamship *Indrani*, with 56 members of crew, en route from Kobe to Boston and New York, granted a supplemental bill of health. Personnel inspected at the hour of sailing. Cargo inspected and passed during loading.

*Quarantine transactions of the Service in the Philippine Islands during the month of April, 1909.*

## MANILA.

Bills of health issued.....	57
Vessels inspected.....	72
Passengers on arriving vessels inspected.....	5, 205
Persons vaccinated.....	28
Members of crews on arriving vessels inspected.....	4, 775
Persons bathed and effects disinfected.....	1, 005
Vessels partially disinfected.....	3
Vessels fumigated to exterminate vermin.....	8
Pieces of baggage disinfected.....	1, 340
Pieces of baggage inspected and passed.....	229
Vessels sailing without quarantine inspected and passed.....	16
Vessels disinfected.....	1
Members of crews on vessels inspected.....	1, 075
Passengers on vessels inspected.....	724
Members of crews bathed and effects disinfected.....	180
Passengers bathed and effects disinfected.....	482
Pieces of baggage disinfected.....	1, 846
Pieces of baggage inspected and passed.....	2, 113
Pieces of miscellaneous cargo certified.....	34, 943

## ILOILO.

Bills of health issued.....	10
Vessels inspected.....	59
Passengers on arriving vessels inspected.....	415
Members of crews on arriving vessels inspected.....	1, 486
Persons vaccinated.....	17
Persons bathed and effects disinfected.....	27
Persons detained in quarantine during month.....	16
Cases of quarantinable diseases detected on vessels, cholera.....	1

Vessels disinfected.....	1
Vessels fumigated to exterminate vermin.....	2
Vessels entering quarantine during the month.....	1
Pieces of baggage disinfected.....	41
Pieces of baggage inspected and passed.....	4

## CEBU.

Bills of health issued.....	9
Vessels inspected.....	551
Passengers on arriving vessels inspected.....	1,835
Members of crews on arriving vessels inspected.....	5,939
Vessel fumigated to exterminate vermin.....	1

## CAVITE.

Bill of health issued.....	1
Vessel inspected.....	1
Passengers on arriving vessels inspected.....	5
Members of crews on arriving vessels inspected.....	58

## OLONGAPO.

No transactions.

## DAVAO.

No transactions.

## ZAMBOANGA.

Vessels inspected.....	4
Passengers on arriving vessels inspected.....	161
Members of crews on arriving vessels inspected.....	285

## JOLO.

Vessels inspected.....	2
Passengers on arriving vessels inspected.....	4
Members of crews on arriving vessels inspected.....	97

## RUSSIA.

*Report from Libau—Status of cholera in Russia—Examination of emigrants.*

Acting Assistant Surgeon De Forest reports, July 31:

*Week ended July 30.*

*Cholera.*—St. Petersburg, 390 cases, 165 deaths; Russia general, 346 cases, 136 deaths, the greater number having occurred at Archangel and Polotzk. At Polotzk, June 27 to 29, 103 cases with 33 deaths were reported.

*Cholera infected localities.*—St. Petersburg, Riga, Archangel, Polotzk, Rubinsk, Cronstadt, Jaroslav, Kief, Drissa, Reval, Vladimir, Rjasan, Tver, and Hungerburg.

For steamship *Birma*, sailing August 3, I have examined 807 emigrants, none of whom showed evidence of quarantinable disease.

## VENEZUELA.

*Reports from La Guaira—Inspection of vessels—Examination of rats for plague infection—New plague cases in Caracas and sanitary work resumed.*

Acting Assistant Surgeon Kellogg reports, July 23 and 31:

*Vessels inspected and given bills of health, week ended July 23.*

Date.	Vessel.	Destination.	Crew.	Passengers taken.	Passengers in transit.
July 17	Albanian.....	Galveston.....	37	0	2
18	Manuel Calvo.....	San Juan.....	126	28	155
19	Cita di Milano.....	Colon.....		0	

Rats examined bacteriologically.....	6
Plague rats.....	0
Rats identified:	
<i>Mus alexandrinus</i> .....	4
<i>Mus norvegicus</i> .....	2
Total.....	6

July 17, 2 new cases of plague were reported in Caracas and bacteriologically verified. The discovery of these cases caused an immediate resumption of the sanitary work, which had been stopped for a few days.

*Vessels inspected and given bills of health, week ended July 31.*

Date.	Vessel.	Destination.	Crew.	Passengers taken.	Passengers in transit.
July 24	Almerian.....	Galveston.....	37	0	1
24	Prins Willem V.....	New York.....	62	12	6

Rats examined bacteriologically.....	14
Plague rats.....	0
Rats identified:	
<i>Mus alexandrinus</i> .....	7
<i>Mus norvegicus</i> .....	7
Total.....	14

A case of plague appeared in Caracas, July 31, and was bacteriologically confirmed. This is the first case reported since July 17. It was found in a house adjoining that in which the preceding cases of July 17 occurred. The patient was removed to the pesthouse, and the neighboring houses were immediately disinfected.

The Caracas authorities report the bacteriological examination of 43 rats during the week with negative results.

#### FOREIGN AND INSULAR STATISTICAL REPORTS] OF COUNTRIES AND CITIES—UNTABULATED.

**BRAZIL—Rio de Janeiro.**—Month of March, 1909. Estimated population, 829,268. Total number of deaths, 1,208, corresponding to an annual death rate of 17.4 per 1,000 of population, including enteric fever 8, smallpox 45, measles 5, scarlet fever 1, whooping cough 3, diphtheria 1, plague 1, leprosy 3, and 255 from tuberculosis.

Month of April, 1909. Total number of deaths, 1,050, corresponding to an annual death rate of 15.1 per 1,000 of population, including enteric fever 4, smallpox 21, measles 1, whooping cough 4, diphtheria 5, leprosy 1, and 235 from tuberculosis.

*São Paulo, Santos, and Campinas.*—Three weeks ended June 27, 1909. Estimated population, 300,000. Total number of deaths, 521, corresponding to an annual death rate of 29.4 per 1,000 of population, including enteric fever 4, smallpox 6, scarlet fever 1, whooping cough 4, measles 4, and 41 from tuberculosis.

*CUBA—Matanzas.*—Period from June 10 to July 31, 1909. Estimated population, 36,009. Total number of deaths, 102, including enteric fever 1, scarlet fever 1, and 13 from tuberculosis.

*GREAT BRITAIN—England and Wales.*—The deaths registered in 76 great towns in England and Wales during the week ended July 24, 1909, correspond to an annual rate of 10.6 per 1,000 population, which is estimated at 16,445,281.

*London.*—Nine hundred and twenty-six deaths were registered during the week, including measles 24, scarlet fever 8, diphtheria 6, whooping cough 17, tuberculosis 90, and 22 from diarrhea. The deaths from all causes correspond to an annual rate of 10 per 1,000. In Greater London 1,313 deaths were registered. In the "outer ring" the deaths included 15 from measles, 1 from scarlet fever, 1 from diphtheria, and 5 from whooping cough.

*Ireland.*—The average annual death rate represented by the deaths registered during the week ended July 24, 1909, in the 21 principal town districts of Ireland was 14.5 per 1,000 of the population, which is estimated at 1,142,308. The lowest rate was recorded in Dundalk, viz, 4, and the highest in Lisburn, viz, 31.8 per 1,000.

*Belfast.*—Report for the quarter ended July 3, 1909. Estimated population, 386,576. Total number of deaths, 1,871, corresponding to an annual death rate of 19.4 per 1,000 of population, including measles 1, whooping cough 52, diphtheria 5, enteric fever 1, pneumonia 203, and 368 from tuberculosis.

*Dublin.*—Report for the quarter ended July 3, 1909. Estimated population, 306,902. Total number of deaths, 1,688, corresponding to an annual death rate of 22 per 1,000 of population, including measles, 23, scarlet fever 1, typhus fever 1, whooping cough 66, diphtheria 5, enteric fever 12, pneumonia 161, and 321 from tuberculosis.

*Scotland.*—The deaths registered in 8 principal towns during the week ended July 24, 1909, correspond to an annual rate of 12.5 per 1,000 of the population, which is estimated at 1,839,038. The highest rate of mortality was recorded in Perth, viz, 19.8, and the lowest in Leith, viz, 7.9 per 1,000. The aggregate number of deaths registered from all causes was 448, including diphtheria 4, enteric fever 1, measles 14, scarlet fever 3, typhus fever 1, and 7 from whooping cough.

**ITALY—Rome.**—Month of February, 1909. Estimated population, 565,323. Total number of deaths, 2,567, corresponding to an annual death rate of 54 per 1,000 of population, including measles 58, scarlet fever 8, enteric fever 8, diphtheria 29, whooping cough 18, and 149 from pulmonary tuberculosis.

**JAPAN—Formosa.**—Four weeks ended July 10, 1909. Estimated population, 3,108,723. Total number of deaths, 71, including plague 59, diphtheria 1, and 6 from enteric fever.

**MAURITIUS—Port Louis.**—Month of May, 1909. Estimated population, 374,237. Total number of deaths, 1,320, corresponding to an annual death rate of 42 per 1,000 of population, including enteric fever 3, diphtheria 1, plague 5, and 8 from tuberculosis.

**URUGUAY—Montevideo.**—Month of May, 1909. Estimated population, 317,622. Total number of deaths, 476, corresponding to an annual death rate of 18 per 1,000 of population, including smallpox 2, scarlet fever 22, diphtheria 7, enteric fever 10, plague 1, and 53 from tuberculosis.

**WEST INDIES—Curaçao.**—Month of July, 1909. Estimated population, 30,000. Total number of deaths, 25. Cause of deaths not reported.

*Cholera, yellow fever, plague, and smallpox, from June 26 to August 20, 1909.*

[Reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls, through the Department of State and from other sources.]

For reports received from December 25, 1908, to June 25, 1909, see PUBLIC HEALTH REPORTS for June 25, 1909.]

[NOTE.—In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

**CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy.....	June 13-26.....	4	.....	
Kang Thau.....	June 13-19.....	2	1	
Swatow.....	May 11-29.....	.....	.....	Present in vicinity.
Germany:				
Konigsberg.....	July 21.....	.....	1	
India:				
Bombay.....	May 30-July 13.....	.....	91	
Calcutta.....	May 16-June 26.....	.....	296	
Madras.....	May 29-July 9.....	.....	3	
Negapatam.....	May 8-14.....	.....	4	
Rangoon.....	May 16-July 3.....	.....	8	
Indo-China:				
Saigon.....	May 9-June 26.....	16	10	
Philippine Islands:				
Manila.....	.....	.....	.....	Fourth quarter 1908, 308 cases and 190 deaths; first quarter 1909, 1 death (imported).
Provinces.....				Fourth quarter 1908, 7,330 cases and 4,292 deaths; first quarter 1909, 2,221 cases and 1,405 deaths.
Cebu.....	May 16-29.....	15	6	
Dapitan.....	May 9-15.....	.....	.....	Present.
Iloilo.....	May 23-June 19.....	28	18	
Leyte.....	June 6-12.....	6	2	
Moro.....	May 29-June 5.....	1	1	
Mountain.....	June 20-26.....	27	15	
Negros Occidental.....	May 9-15.....	8	2	
Negros Oriental.....	May 16-June 26.....	96	66	
Pampanga.....	May 9-June 26.....	47	32	
Pangasinan.....	June 13-19.....	1	.....	
Samar.....	May 9-June 26.....	28	22	
Sorsogon.....	May 9-15.....	8	2	



*Cholera, yellow fever, plague, smallpox, etc.—Continued.*

## CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia.....				July 23, present in Drissa, Kostroma, Kreutzburg, Mahlagra-ben, Moscow, Muravjevo, Onega, Pinega, Polotzk, Rad-siwilischki, Reval, Schaulen, and Tver.
Archangel.....	June 26-July 23....	189	115	
Baku, government.....	July 4-10.....	1		
Chmalysk, district.....	July 1.....	1		
Cronstadt.....	June 30-July 13....	40	17	July 30, still present.
Eastland, government.....	July 1.....	1		
Finland—				
Mariengam.....	June 23-24.....	1	1	
Viborg.....	July 9-16.....	1		
Hungerburg.....	July 30.....			Present.
Jaroslav.....	July 4-10.....	3	1	July 30, still present
Kief.....	July 30.....			Present.
Kretsky, district.....	July 1.....	1		
Mitau.....	July 15.....	2	1	
Moscow.....	July 9-16.....	5	2	
Novgorod, government.....	July 4-17.....	33	15	
Olonets, government.....	June 20-July 17....	6	3	
Polotzk.....	June 27-29.....	103	33	
Pskov.....	July 1-17.....	8	3	
Riga.....	July 1-23.....	49	18	
Rjasin.....	June 24-July 16....	3	3	Do.
Rubinsk.....	July 30.....			Do.
Simbirsk.....	July 13.....	1		
St. Petersburg, government	June 9-July 5.....	265	60	
St. Petersburg.....	June 2-July 30....	3,441	1,319	
Vilna.....	July 11-17.....	1	1	
Vitebsk.....	July 9-16.....	8	3	
Vologda, government.....	July 4-17.....	99	42	
Siam:				
Bangkok.....	Apr. 25-May 28....	1		
Straits Settlements:				
Singapore.....	May 9-June 5.....		18	

## YELLOW FEVER.

Barbados, general.....	June 13-20.....	1		St. Joseph Parish, Dec. to June, 14 deaths not previously re-ported.
Brazil:				
Bahia.....	May 22-June 25....	32	15	
Manaos.....	May 23-July 3.....		7	
Para.....	May 30-July 31....	29	29	
Pernambuco.....	Apr. 15-30.....	3		
British Guiana:				
Suddie.....	July 22.....	1	1	35 miles from Georgetown.
Ecuador:				
Guayaquil.....	May 23-July 24....		32	
Mexico:				
Merida.....	June 5-11.....	2		
Panama:				
Canal Zone—				
Ancon.....	Mar. 1-31.....			1 case at Culebra Island quaran-tine station from a vessel and 1 fatal case en route from Guay-aquil.

## PLAGUE.

Australia:				
Adelaide.....	Apr. 30-May 1.....	1		
Mackay.....	Jan. 21-June 6....	2	2	
Sydney.....	Apr. 18-May 29....	5	1	
Brazil:				
Bahia.....	June 5-26.....	9	5	
Rio de Janeiro.....	May 17-July 10....	2	1	
Chile:				
Antofagasta.....	May 9-30.....	13	5	June 26, 2 cases in the lazaretto.
Iquique.....	May 20-June 30....	11	6	June 30, 10 cases in the lazaretto

*Cholera, yellow fever, plague, smallpox, etc.—Continued.*

## PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy.....	June 1-July 10.....		482	
Canton.....	May 9-June 26.....	255	158	
Chinchew.....	May 22.....			Epidemic.
Hongkong.....	May 2-June 26.....	70	66	
Pollam.....	May 23-29.....	8	7	
Swatow district.....	May 16-July 1.....		350	July 1, 200 cases still present in Touchowfu and Yin Shan, July 19, present in Swatow.
Ecuador:				
Chunchi.....	June 1-30.....	3	1	
Guayaquil.....	May 23-July 24.....		27	
Huigra.....	May 1-31.....	14	3	
Egypt:				
Alexandria.....	May 30-July 13.....	5	4	
Port Said.....	May 29-July 13.....	9	3	
Provinces—				
Assiout.....	May 14-July 2.....	38	7	
Beherah.....	June 1-July 15.....	28	10	
Galyoobeeyeh.....	June 2-July 10.....	4	2	
Garbieh.....	June 2-July 11.....	15	10	
Fayoum.....	June 3-23.....	15	6	
Menouf.....	Jan. 18-July 15.....	77	15	
German East Africa:				
Muanza district.....	Apr. 30-May 22.....		12	
Hawaii:				
Honolulu.....	July 20.....	1		The case arrived on the s. s. Korea, had been ill 11 days, and probably received infection at Hongkong.
India:				
Bombay Presidency and Sind.....	May 16-July 3.....	1,197	1,033	
Madras Presidency.....	May 16-July 3.....	313	185	
Bengal.....	May 16-July 3.....	649	553	
United provinces.....	May 16-July 3.....	1,166	1,088	
Punjab.....	May 16-July 3.....	6,950	5,968	
Burma.....	May 16-July 3.....	423	415	
Central provinces, including Berar.....	May 16-July 3.....	42	34	
Coorg.....				
Mysore State.....	May 16-July 3.....	276	201	
Hyderabad State.....				
Central India.....				
Rajputana and Ajmer-Merwara.....	May 16-July 3.....	997	833	
Kashmir.....	May 16-June 12.....	4	3	
Northwest Province.....				
Grand total.....		12,017	10,313	
Indo-China:				
Saigon.....	May 9-June 19.....	13	13	
Japan:				
Formosa.....	May 23-July 17.....	223	156	In south and central parts.
Kobe.....	May 30-July 17.....	12	8	
Osaka.....	July 4-10.....	1	1	
Tokyo.....	June 26.....	3		
Yokohama.....	May 25-July 12.....	18	12	
Mauritius.....	Apr. 1-30.....	4	4	
Peru:				
Report for week ending June 17 received out of date.				
Arequipa, department.....	May 8-July 1.....	10	2	
Chala.....	July 3.....			Present.
Mollendo.....	July 3.....			Do.
Cajamarca, department.....	May 8-July 1.....	20	5	
Callao, department.....	May 8-July 1.....	8	1	
Callao.....	June 20-July 3.....			Do.
Lambayeque, department.....	May 8-June 10.....	14	10	
Libertad, department.....	May 8-July 1.....	11	7	
Lima, department.....	May 8-July 1.....	11	7	
Pescadores islands.....	June 27-July 3.....	4		From s. s. Lodore.
Piura, department.....	June 18-July 1.....	8	6	
Palta.....	June 20-July 3.....			Present.
Slam:				
Bangkok.....	Apr. 25-June 28.....	13	13	
Trinidad:				
Port of Spain.....	June 13-July 18.....	6	5	
Turkey in Asia:				
Adalla.....	June 25.....	1		
Beirut.....	June 25-July 4.....	1		In Harrett Aryk.

*Cholera, yellow fever, plague, smallpox, etc.—Continued.*

## PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Uruguay:				
Montevideo.....	May 1-June 30.....		2	
Venezuela:				
Caracas.....	June 18-July 31....	7	1	
Zanzibar.....	July 26.....	1		

## SMALLPOX.

Algeria:				
Algiers.....	May 1-July 24.....	26	15	
Bona.....	June 1-30.....	16	7	
Argentina:				
Buenos Aires.....	Mar. 1-Apr. 30.....		10	
Rosario.....	Apr. 1-May 31.....	2	2	
Austria:				
Galicia.....	June 6-July 17.....	4		
Silesia.....	June 20-July 10....	12		
Brazil:				
Bahia.....	May 22-June 25....	16	4	
Pernambuco.....	Apr. 1-May 31.....		27	
Rio de Janeiro.....	May 17-July 10....	51	20	
Santos.....	May 10-16.....		1	
São Paulo.....	May 10-June 27....		7	
Canada:				
British Columbia—				
Vancouver.....	June 1-30.....	3		
Nova Scotia—				
Halifax.....	June 13-Aug. 7....	5		
Quebec—				
Montreal.....	June 17.....			2 cases additional at Grosse Isle on s. s. Virginian.
Ceylon:				
Colombo.....	May 23-29.....	2		
Chile:				
Valparaiso.....	May 16-29.....			Present.
Santiago.....	May 29.....			Still present.
China:				
Amoy.....	June 1-26.....	24	22	May 9-15; present.
Hankow.....	Apr. 25-June 12....			Present among natives.
Hongkong.....	May 2-June 26....	16	12	
Shanghai.....	May 10-July 11....		7	Do.
Tientsin.....	June 27-July 3....	1	2	
Egypt, general.....	Apr. 30-June 3....	905	200	
Cairo.....	May 21-July 8....	11	12	
Suez.....	May 21-July 8....	46	3	
France:				
Marseille.....	June 1-30.....		5	
Paris.....	May 23-July 24....	36	2	
Germany, general.....	May 30-June 19....	15		
Great Britain:				
Cardiff.....	July 6.....	1		
Liverpool.....	June 21-26.....	2		Case June 22, from s. s. Canada.
India:				
Bombay.....	May 26-July 13....		63	
Calcutta.....	May 16-June 26....		162	
Madras.....	May 22-July 9....		11	
Rangoon.....	May 12-July 3....		17	
Indo-China:				
Saigon.....	May 9-June 26....	13	9	
Italy, general.....	May 31-July 29....	128		
Genoa.....	June 1-July 15....	7		
Naples.....	May 31-July 25....	176	31	
Ottiana.....	June 23.....	1		
Rome.....	Mar. 7-13.....	1	1	
Japan:				
Formosa.....	June 13-19.....	1		
Moji.....	June 6.....	1		From s. s. Selja.
Osaka.....	Jan. 1-May 31....	3		
Yokohama.....	June 1-7.....	1		
Java:				
Batavia.....	May 6-June 26....	13		
Mauritius:				
Port Saint Louis.....	Apr. 1-May 31....	6	6	
Mexico:				
Agua Calientes.....	June 21-27.....		1	
Guadalajara.....	June 11-26.....	2	1	
Mexico.....	May 16-July 10....		71	
Monterey.....	June 14-Aug. 1....		23	
Veracruz.....	June 1-19.....	2	2	

*Cholera, yellow fever, plague, smallpox, etc.*—Continued.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Panama:				
Canal Zone—				
Ancon.....	Mar. 1-31.....	1		At Culebra Island quarantine station; from a vessel.
Philippine Islands:				
Manila.....	May 9-June 19....	16	6	Fourth quarter, 1908, 28 cases and 8 deaths; first quarter, 1909, 55 cases and 16 deaths.
Portugal:				
Lisbon.....	May 30-July 24....	73		
Russia:				
Libau.....	May 6-July 25.....	3		
Moscow.....	May 16-July 17....	223	75	
Odessa.....	May 30-July 24....	21		
Riga.....	June 6-July 24....	33		May 1-30, 5 deaths.
St. Petersburg.....	May 16-July 10....	193	42	
Warsaw.....	Apr. 25-July 11....		12	
Siam:				
Bangkok.....	Apr. 25-June 28...	2	1	
Siberia:				
Vladivostok.....	May 15-June 3....	4	1	
Spain:				
Barcelona.....	June 1-July 19.....		29	
Huelva.....	May 1-June 30.....		8	
Madrid.....	May 1-June 30.....		157	
Seville.....	May 1-June 30.....		2	
Tarragona.....	July 20-26.....		1	
Valencia.....	May 30-July 24....	50	2	
Vigo.....	May 23-July 24....		7	
Straits Settlements:				
Singapore.....	May 16-22.....		1	
Switzerland:				
Aargau, canton.....	June 20-26.....	1		
Fribourg, canton.....	June 13-19.....	1		
Geneva, canton.....	May 30-June 26....	9		
Tripoli:				
Tripoli.....	May 23-July 10....	50	11	
Turkey in Asia.....	July 19.....			Present in interior.
Bagdad.....	May 9-20.....			Present.
Bassorah.....	May 23-June 26....			Do.
Hadjin.....	July 19.....			Do.
Smyrna.....	May 7-July 1.....		28	
Turkey in Europe:				
Constantinople.....	May 31-Aug. 1....		8	
Uruguay:				
Montevideo.....	Apr. 1-June 30....		5	

*Weekly mortality table, foreign and insular cities.*

[illegible]

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—								
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.
												Measles.
												Whooping cough.
Basel.....	July 17	131,000	21	3								
Belfast.....	July 24	386,586	113	16						3		
Belize.....	July 29	9,113	5	1								
Bergen.....	July 24	87,749	18	2								
Birmingham.....	do.....	558,336	116	31						1	63	11
Bombay.....	July 6	977,822	471	34	23	12		4		2		1
Bordeaux.....	July 24	253,000	78	9								
Bremen.....	do.....	235,648	60	8								2
Breslau.....	July 17	335,186	194	24								1
Bristol.....	July 24	377,642	76	8								3
Budapest.....	July 18	804,200								1	2	1
Cairo.....	July 1	701,806	822	35				1	13	9		54
Calcutta.....	June 26	847,796	393	18	48	55		8				
Cardiff.....	June 19	195,303	42	4						1		3
Do.....	June 26	195,303	38	1						1		1
Do.....	July 3	195,303	34	3								1
Do.....	July 10	195,303	40	3								1
Do.....	July 17	195,303	40	2								2
Do.....	July 24	195,303	36	4					1			1
Chemnitz.....	July 17	276,940	66	7							2	3
Chihuahua.....	Aug. 1	37,000	36							3		1
Christiania.....	July 17	236,000	42									1
Do.....	July 24	236,000	43	10						1		
Cognac.....	do.....	19,483	5							1	1	
Colombo.....	June 26	183,872	132	15					8			
Do.....	July 3	183,872	137	20					7			
Colon.....	July 24	16,000	14	1					1			
Copenhagen.....	July 10	448,000	106	7								5
Dalny.....	do.....	37,822	15									1
Dresden.....	July 17	546,400	121	18							2	2
Dublin.....	July 24	394,525	115	29					2		1	2
Dundee.....	do.....	169,409	47								1	
Durban.....	July 3	60,244	18	4								
East London.....	do.....	49,253	4									
Do.....	July 10	49,253	7									
Edinburgh.....	July 24	355,366	76	3						1	1	2
Erfurt.....	July 17	107,748	24	1						2	1	1
Georgetown.....	July 10	56,000	34	3					1			
Do.....	July 17	56,000	47	5					1			
Ghent.....	do.....	164,579	47	2								9
Glasgow.....	July 30	872,021	208					1		2	1	5
Greenock.....	July 17	72,300	20	3								1
Do.....	July 24	72,300	20	5								1
Guayaquil.....	July 3	75,000	53	6	1		2		1			2
Do.....	July 10	75,000	57	9	2		2					
Hamburg.....	July 17	872,252	116	23					1	5	9	1
Hamilton, Bermuda.....	July 26	20,206	6									
Havre.....	July 10	132,430	54	12					1			
Do.....	July 17	132,430	52	7								1
Kobe.....	July 10	380,717	139						2		1	
Do.....	July 17	380,717	186									
Konigsberg.....	do.....	239,100	78	11						2		3
La Guaira.....	July 11	10,000	9	5								
Do.....	July 18	10,000	6	1								
Leeds.....	July 24	484,012	106	9								2
Leipzig.....	July 17	537,686	129	17				1	1	2	3	1
Leith.....	July 24	85,721	13	1								3
Leige.....	July 17	176,280	48	1								1
Liverpool.....	July 24	760,357	202	24						4	1	11
Madras.....	July 6	509,346	413					1				
Managua.....	July 10	22,278	25	2								
Manchester.....	July 24	631,533	159	16					2	2	2	6
Mannheim.....	July 10	183,317	53	9								3
Matamoros.....	July 31	8,000	6	1								
Mazatlan.....	do.....	22,000	19									
Mexico.....	July 10	400,000	393	28			11	8		7	1	4
Moncton, N. B.....	July 31	13,500	5	1								
Monrovia.....	July 3	7,000	3									
Do.....	July 10	7,000	5									
Do.....	July 17	7,000	4									

## Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—									
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.
Monterey.....	Aug. 1	100,000	92	9				1		2			
Montreal.....	July 31	389,837	190	11						1	2	2	
Munich.....	July 10	566,000	185	33							2	1	3
Nagasaki.....	July 11	175,936	40										
Nantes.....	July 18	161,908	47	17									
Do.....	July 25	161,908	43	9									
Naples.....	July 10	593,729	302					8					
Do.....	July 17	593,729	298					3					
Do.....	July 24	593,729	285					5					
Newcastle on Tyne.....	do.....	281,584	55									2	1
Nottingham.....	July 17	260,000	58						1	1		1	
Nuevo Laredo.....	July 31	8,000	5	2									
Nuremberg.....	July 3	316,180	107	17						2			
Do.....	July 10	316,180	107	12							1	2	
Palermo.....	July 17	335,000	187	8						1			
Paris.....	June 5	2,776,394	934	197					6	5	2	19	3
Do.....	July 17	2,776,394	764	171					4	3	2	16	1
Do.....	July 24	2,776,394	807	150					4	3	6	23	3
Penang.....	June 26	102,520	59	14									
Plymouth.....	July 24	124,180	24						2				
Port Elizabeth.....	July 10	32,959	10	2									
Prague.....	July 17	229,965	111	39						1	2		
Queensstown.....	July 24	7,909	2									1	
Rangoon.....	June 26	252,155	199	9	33	2						1	
Rio de Janeiro.....	July 3	811,443	263	60				1					
Do.....	July 11	811,443	240	46				1				2	
St. John, N. B.....	Aug. 7	47,000	8	1									
St. Petersburg.....	July 10	1,678,000	1,096	117		28		3	3	11	15	16	45
Santa Cruz de Teneriffe.....	July 17	46,000	14	2									
Santiago de Cuba.....	July 24	53,614	18	1									
Do.....	July 31	53,614	16									1	
Sheffield.....	July 17	450,000	122	12						1		1	2
Do.....	July 24	450,000	82	9						1			
Singapore.....	June 26	260,000	198	21					2				
Southampton.....	July 24	124,667	28	4					1				3
South Shields.....	do.....	117,627	26	3						1		1	3
Suez.....	June 24	19,786	10										
Do.....	July 1	19,786	13									1	
Do.....	July 8	19,786	25									2	
Sunderland.....	July 24	159,137	41	6									
Tegucigalpa.....	July 20	24,000	10										
Trieste.....	July 17	217,706	66						1			2	
Turin.....	July 16	381,439	125	12					1			1	
Veracruz.....	July 31	32,000	33							1			
Victoria, B. C.....	do.....	30,000	2										
Vigo.....	July 24	40,000	11	1				1	2				
Vladivostok.....	June 3	82,494	18	6				1	1				
Do.....	June 12	82,494	9	3									
Warsaw.....	June 21	764,054	268	36				2	2		5	1	5
West Hartlepool.....	July 24	66,750	9						1				
Winnipeg.....	July 31	122,000	22										
Yokohama.....	July 12	392,870			1								

\* Reported out of date.

By authority of the Secretary of the Treasury:

WALTER WYMAN,

Surgeon-General,

United States Public Health and Marine-Hospital Service.